



US009038233B2

(12) **United States Patent**
Jones et al.

(10) **Patent No.:** **US 9,038,233 B2**
(45) **Date of Patent:** ***May 26, 2015**

(54) **AUTONOMOUS FLOOR-CLEANING ROBOT**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/714,546**

(22) Filed: **Dec. 14, 2012**

(65) **Prior Publication Data**

US 2013/0174371 A1 Jul. 11, 2013

Related U.S. Application Data

(63) Continuation of application No. 12/201,554, filed on Aug. 29, 2008, now Pat. No. 8,474,090, which is a continuation of application No. 10/818,073, filed on Apr. 5, 2004, now Pat. No. 7,571,511, which is a

(Continued)

(51) **Int. Cl.**
A47L 11/40 (2006.01)
A47L 5/30 (2006.01)

(Continued)

(52) **U.S. Cl.**
CPC **A47L 11/4061** (2013.01); **A47L 5/30**
(2013.01); **A47L 5/34** (2013.01); **A47L 7/02**
(2013.01);

(Continued)

(58) **Field of Classification Search**
CPC . A47L 2201/00; A47L 2201/04; A47L 9/009;
A47L 9/2842; A47L 9/2857; A47L 9/2805;

A47L 2201/06; A47L 11/4061; A47L 11/4066; A47L 9/2889; A47L 9/0411; A47L 5/30; A47L 7/02; A47L 5/34; A47L 11/282
USPC 15/319, 339, 52.1, 340.1, 356, 360, 42, 15/322, 340.3, 340.4, 349; 700/245
See application file for complete search history.

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(57) **ABSTRACT**

A floor cleaning robot comprises a housing, wheels, and a motor driving the wheels to move the robot across a floor, a control module disposed within the housing and directing movement of the robot across the floor, a sensor for detecting and communicating obstacle information to the control module so that the control module can cause the robot to react to the obstacle, a removable bin disposed at least partially within the housing and receiving particulates, a first rotating member directing particulates toward the bin, and a second rotating member cooperating with the first rotating member to direct particulates toward the bin. The removable bin receives particulates directed thereto by the first and second rotating members and the particulates pass from the first rotating member to the removable bin without passing through a filter.

21 Claims, 13 Drawing Sheets

